PHŒNIX CONTACT

Extension module - PSR-SCP- 24DC/URM4/4X1/2X2/B - 2981677

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Single-channel contact extension with TBUS interface, 4 N/O contacts, 1 N/C contact, 1 confirmation current path, undelayed, Cat. 4, PL e according to EN ISO 13849, pluggable screw terminal blocks, width: 22.5 mm

Your advantages

☑ 4 enabling current paths, 1 signaling current path, and 1 confirmation current path

☑ 1- and 2-channel control

☑ Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with IEC 62061, SIL 3 in accordance with IEC 61508

RoHS

PL EN ISO 13849

SIL IEC 62061

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 081535
GTIN	4046356081535

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)
Maximum altitude	max. 2000 m (Above sea level)

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Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Typical input current at U_N	42 mA
Typical response time	10 ms
Typical release time	10 ms
Recovery time	1 s
Status display	Green LED
Protective circuit	Surge protection Suppressor diode

Output data

Contact type	4 enabling current paths
	1 signaling current path
	1 confirmation current path
Contact material	$AgSnO_2$
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact, DC1/AC1)
	3 A (N/C contact)
Maximum inrush current	6 A (N/O contact, DC1/AC1)
	3 A (N/C contact)
Inrush current, minimum	25 mA
Sq. Total current	72 A^2 ($I_{TH}^2 = I_1^2 + I_2^2 + I_3^2 + I_4^2$)
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms, N/C contact 61/62: 72 W)
	288 W (48 V DC, τ = 0 ms, N/C contact 61/62: 144 W)
	77 W (110 V DC, τ = 0 ms)
	88 W (220 V DC, τ = 0 ms)
	1500 VA (250 V AC, τ = 0 ms, N/C contact 61/62: 750 VA)
Maximum interrupting rating (inductive load)	48 W (24 V DC, τ = 40 ms)
	40 W (48 V DC, τ = 40 ms)
	35 W (110 V DC, τ = 40 ms)
	33 W (220 V DC, τ = 40 ms)
Switching capacity min.	0.4 W
Mechanical service life	approx. 10^7 cycles
Switching capacity (360/h cycles)	6 A (24 V DC)
	5 A (230 V AC)
Switching capacity according to IEC 60947-5-1	5 A (DC13)
	5 A (AC15)
Output fuse	10 A gL/gG NEOZED (N/O contact)
	4 A gL/gG NEOZED (N/C contact)

General

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General

Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3
Nominal operating mode	100% operating factor
Net weight	196.9 g
Mounting position	any
Mounting type	DIN rail mounting
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Housing material	Polyamide
Housing color	yellow

Connection data

Connection method	Screw connection
pluggable	Yes
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm
Screw thread	M3

Safety-related characteristic data

Stop category in accordance with IEC 60204	0
Designation	IEC 61508 - High demand
Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
Designation	IEC 61508 - Low demand
Safety Integrity Level (SIL)	3 (In conjunction with suitable evaluating device)
Designation	EN ISO 13849
Performance level (PL)	e (In conjunction with suitable evaluating device)
Category	4 (In conjunction with suitable evaluating device)
Designation	EN 62061
Safety Integrity Level (SIL)	3
Safety Integrity Level Claim Limit (SIL CL)	In conjunction with suitable evaluating device

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 60947-1
Rated insulation voltage	250 V
Rated surge voltage/insulation	4 kV / basic isolation (safe isolation, reinforced insulation and 6 kV between input circuit/N/C contacts and enabling current paths).
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

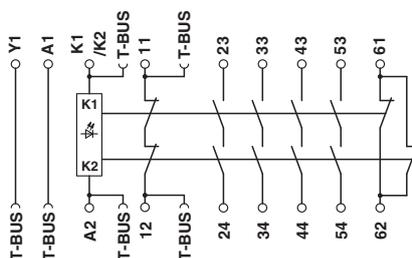# Extension module - PSR-SCP- 24DC/URM4/4X1/2X2/B - 2981677

Technical data

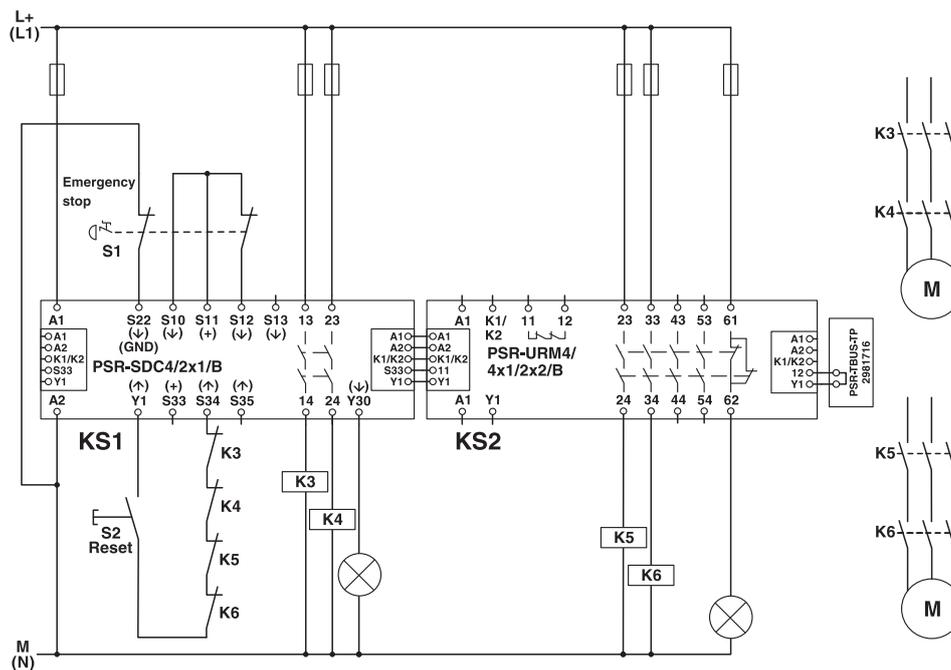### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram

Circuit diagram

Two-channel emergency stop monitoring with contact extension

Classifications

eCl@ss

eCl@ss 10.0.1	27371819
eCl@ss 11.0	27371819
eCl@ss 4.0	40020600

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Classifications

eCl@ss

eCl@ss 4.1	40020600
eCl@ss 5.0	27371900
eCl@ss 5.1	27371900
eCl@ss 6.0	27371800
eCl@ss 7.0	27371819
eCl@ss 9.0	27371819

ETIM

ETIM 2.0	EC001449
ETIM 3.0	EC001449
ETIM 4.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449

UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39121501
UNSPSC 18.0	39122205
UNSPSC 19.0	39122205
UNSPSC 20.0	39122205
UNSPSC 21.0	39122205

Approvals

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UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

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Approvals

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		EAC-Zulassung

EAC		RU C-DE.A*30.B.01082

cULus Listed	

Accessories

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DIN rail connector

DIN rail bus connectors - PSR-TBUS - 2890425

DIN rail connector for safety switching devices, for supplying/controlling/monitoring (depending on the module)

DIN rail bus connectors - PSR-TBUS-TP - 2981716

Blind plug for the PSR-TBUS DIN rail connector used with the modular safety relay system (PSR-SDC4)

DIN rail bus connectors - PSR-TBUS - 1PCS - 1326060

DIN rail connector for safety switching devices, for supplying/controlling/monitoring (depending on the module)